



ROOTS

Sustainable Agricultural
Technologies Ltd.

TARGETING THE ROOTS' ZONE INSTEAD OF THE CANOPY:



HEATING AND COOLING ROOT ZONE TO INCREASE YIELD,
SAVE ENERGY, SHORTEN GROWING
CYCLES AND IMPROVE FARMER'S PROFITABILITY



ABOUT US

Australian-listed and Israeli based, Roots Sustainable Agricultural Technologies Ltd (ASX: ROO) is commercialising worldwide its disruptive, modular, cutting-edge technologies.

LEADING TECHNOLOGIES

- * Root Zone Temperature Optimisation (RZTO): Two- in-one root zone heating and cooling
- * Irrigation by Condensation (IBC): Electric or solar powered irrigation by condensation technology

ROOTS' VISION

ROOTS' vision is to help farmers increase yield and provide production security to meet the growing global demand for food and water.



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ROOT ZONE TEMPERATURE OPTIMIZATION (RZTO) TECHNOLOGY

*CLICK HERE TO VIEW
TECHNOLOGY'S VIDEO



Root temperatures influence all parameters of the plant's physiology and an optimum RZT range is essential for a plant's robust growth, productivity and quality.

The RZTO technology is a closed loop system exchanging heat in water flowing between underground inserted coils and root zone area. The results of RZT optimization: significant yield increase (20-80% in most cases), better quality, shorter growing cycles, off season planting, reduction in air climate control expenditures, low environmental signature.

* NOTE: At times, a hybrid system with GSHE coils and efficient heat pump is used in conjunction.

TECHNOLOGY'S ADVANTAGES



**INCREASE OF
YIELD QUANTITY
AND QUALITY**



**FASTER
GROWTH
CYCLES**



**SUBSTANTIAL
ENERGY
SAVINGS**



**ADDITIONAL
PROFITABILITY
PREMIUM PRICES**



**IMPROVES
UNIFORMITY AND
SUPPLY SECURITY**

CLICKABLE CASE STUDIES



BASIL



CANNABIS



LETTUCE



STRAWBERRY



FLOWERS



CUCUMBER



CHIVES



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